

13 JUL 2005

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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|--|---|--|
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | | ATTORNEY'S DOCKET NUMBER 05-511-B U.S. APPLICATION NO. (known, see 37 CFR 1.5) 10/586289 |
| INTERNATIONAL APPLICATION NO. PCT/KR2005/000139 | INTERNATIONAL FILING DATE 14 January 2005 (14.01.2005) | PRIORITY DATE CLAIMED 15 January 2004 (15.01.2004) |
| TITLE OF INVENTION APPARATUS AND METHOD FOR SENSING FAULTS OF APPLICATION PROGRAMS IN A CDMA SYSTEM | | |
| APPLICANT(S) FOR DO/EO/US Ki Sung LYU | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. | | |
| 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. | | |
| 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below. | | |
| 4. <input type="checkbox"/> The US has been elected (Article 3). | | |
| 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) | | |
| a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). | | |
| b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. | | |
| c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). | | |
| 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)). | | |
| a. <input type="checkbox"/> is attached hereto. | | |
| b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). | | |
| 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) | | |
| a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau), | | |
| b. <input type="checkbox"/> have been communicated by the International Bureau. | | |
| c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. | | |
| d. <input checked="" type="checkbox"/> have not been made and will not be made. | | |
| 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)). | | |
| 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)) | | |
| 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). | | |
| Items 11 to 20 below concern documents) or information included: | | |
| 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. | | |
| 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. | | |
| 13. <input type="checkbox"/> A preliminary amendment. | | |
| 14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. | | |
| 15. <input type="checkbox"/> A substitute specification. | | |
| 16. <input type="checkbox"/> A power of attorney and/or change of address letter. | | |
| 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. | | |
| 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). | | |
| 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). | | |

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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| | | |
|--|---|--|
| U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <div style="font-size: 1.5em; font-weight: bold;">10/586289</div> | INTERNATIONAL APPLICATION NO. 14 January 2005 (14.01.2005) | ATTORNEY'S DOCKET NUMBER 15 January 2004 (15.01.2004) |
|--|---|--|

20. Other items or information:
 Published International Application WO2005/069543 A1
 International Search Report (PCT/ISA/210)
 Written Opinion from the International Searching Authority
 Application Data Sheet
 Postcard
 Check
 Express Mail Number: EV 757106348 US

| The following fees have been submitted | CALCULATIONS | PTO USE ONLY | | | | | | | | | | | | | | | | | | | | |
|---|--------------|---|---|------|----|--------------|-------|---------|--------|----|--------------------|---|------|---------|----|---|--|--|---------|----|--|--|
| 21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))\$300 | \$ 300.00 | | | | | | | | | | | | | | | | | | | | | |
| 22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) | | | | | | | | | | | | | | | | | | | | | | |
| If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)\$0 All other situations\$200 | \$ 200.00 | | | | | | | | | | | | | | | | | | | | | |
| 23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) | | | | | | | | | | | | | | | | | | | | | | |
| If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)\$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority\$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the USA by the IB\$400 All other situations\$500 | \$ 400.00 | | | | | | | | | | | | | | | | | | | | | |
| TOTAL OF 21, 22 and 23 = | \$ 900.00 | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) 37 CFR 1.492(j)) The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;">Total Sheets</th> <th style="width:15%;">Extra Sheets</th> <th style="width:35%;">Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th style="width:35%;">RATE</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>-100 =</td> <td>/50 =</td> <td>x \$250</td> </tr> </tbody> </table> | Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | 12 | -100 = | /50 = | x \$250 | \$ | | | | | | | | | | | | | |
| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | | | | | | | | | | | | | | | | | | | |
| 12 | -100 = | /50 = | x \$250 | | | | | | | | | | | | | | | | | | | |
| Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)). | \$ 130.00 | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;">CLAIMS</th> <th style="width:15%;">NUMBER FILED</th> <th style="width:15%;">NUMBER EXTRA</th> <th style="width:15%;">RATE</th> <th style="width:40%;"></th> </tr> </thead> <tbody> <tr> <td>Total claims</td> <td>3</td> <td>-20 =</td> <td>x \$50</td> <td>\$</td> </tr> <tr> <td>Independent claims</td> <td>2</td> <td>-3 =</td> <td>x \$200</td> <td>\$</td> </tr> <tr> <td colspan="3">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td>+ \$360</td> <td>\$</td> </tr> </tbody> </table> | CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | Total claims | 3 | -20 = | x \$50 | \$ | Independent claims | 2 | -3 = | x \$200 | \$ | MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | | + \$360 | \$ | | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | | | | | | | | | | | | | | | | | | |
| Total claims | 3 | -20 = | x \$50 | \$ | | | | | | | | | | | | | | | | | | |
| Independent claims | 2 | -3 = | x \$200 | \$ | | | | | | | | | | | | | | | | | | |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | | + \$360 | \$ | | | | | | | | | | | | | | | | | | |
| TOTAL OF ABOVE CALCULATIONS = | | \$ | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. | | | | | | | | | | | | | | | | | | | | | | |
| SUBTOTAL = | | \$ 1,030.00 | | | | | | | | | | | | | | | | | | | | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). | | \$ | | | | | | | | | | | | | | | | | | | | |
| TOTAL NATIONAL FEE = | | \$ 1,030.00 | | | | | | | | | | | | | | | | | | | | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | \$ | | | | | | | | | | | | | | | | | | | | |
| TOTAL FEES ENCLOSED = | | \$ 1,030.00 | | | | | | | | | | | | | | | | | | | | |
| | | Amount to be refunded: | \$ | | | | | | | | | | | | | | | | | | | |
| | | Amount to be charged: | \$ | | | | | | | | | | | | | | | | | | | |

10/586289

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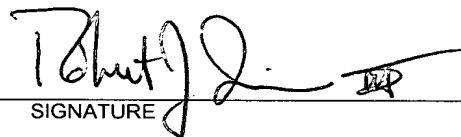
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- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 13-2490. A duplicate copy of this sheet is enclosed.
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NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:
McDonnell, Boehnen, Hulbert, & Berghoff LLP
300 South Wacker Drive
Chicago, IL 60606
Phone: 312-913-0001
Fax: 312-913-0002



SIGNATURE

Robert J. Irvine III

NAME

41,865

REGISTRATION NUMBER

July 13, 2006

DATE

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PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)
(Case No. 05-511-B)**

In the Application of:)
)
Ki Sung LYU)
)
U.S Application No.: TBA)
International Appln No. PCT/KR2005/000139)
)
International Filing Date: 14 January 2005)
)
For: Apparatus and Method for)
Sensing Faults of Application)
Programs in a CDMA System)

CERTIFICATE OF MAILING BY "EXPRESS MAIL"

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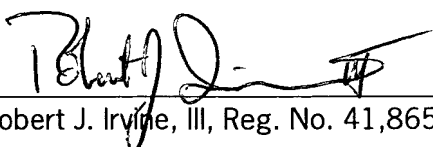
Sir:

Date of Deposit: **July 13, 2006** "Express Mail" Mailing Label Number: **EV757106348US.**

Attached Paper or Fee:

- 1) **Transmittal to the DO/EO/US (3 sheets);**
- 2) **Application Data Sheet (2 sheets);**
- 3) **Copy of the International Search Report (3 sheets);**
- 4) **Written Opinion of the ISA/KR (3 sheets);**
- 4) **Copy of the published International Application (12 sheets);**
- 5) **Filing Fee Check; and**
- 6) **Return Receipt Postcard**

I hereby certify that I directed that the attached paper or fee be deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 C.F.R. 1.10 on the date indicated above and be addressed to Mail Stop PCT, Commissioner for Patents, PO Box 1450, Alexandria VA 22313-1450.


Robert J. Irvine, III, Reg. No. 41,865